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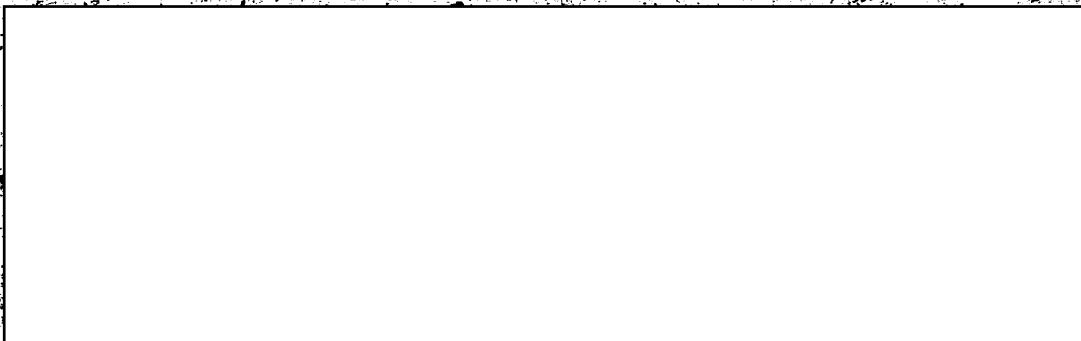
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S-13179
NPIC/R-139/64
June 1964

PHOTOGRAPHIC INTERPRETATION REPORT

SOUTHWEST PROBABLE ANTIMISSILE MISSILE
LAUNCH COMPLEX
LENINGRAD, USSR



NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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GROUP 1
Excluded from automatic
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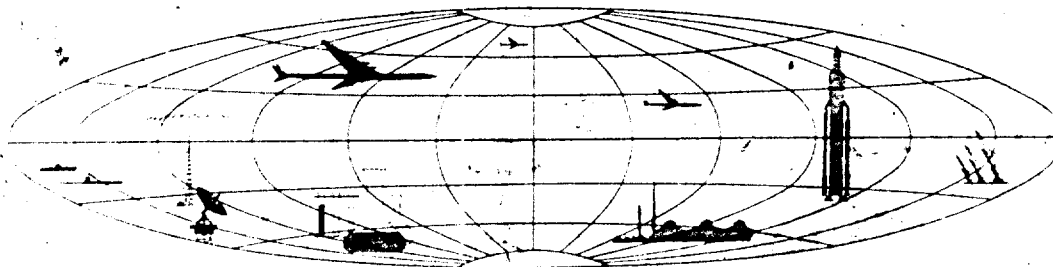
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NPIC/R-439/64

INTRODUCTION

The Leningrad Southwest Probable AMM Launch Complex [REDACTED] at 59-43-00N, 29-18-30E (Figure 1) was observed on very good quality nonstereo [REDACTED] photography [REDACTED]

[REDACTED] respectively. This photography provides the best coverage to date of the Southwest Complex and reveals more detailed information than was discernible on

earlier small-scale photography. 1/ 2/

This report was prepared in response to CIA and NSA requirements requesting information on the Southwest Complex as observed on [REDACTED] photography.

A separate NPIC report (Project No N-642/64) will be published on the Northwest Complex, which was covered by excellent-quality stereoscopic [REDACTED] photography [REDACTED]

DISCUSSION

NPIC has arbitrarily assigned a system of designators (Figure 3) to the launch sites and the launch positions within them at the three Leningrad probable AMM launch complexes. These designators will be utilized in future reporting to facilitate reference to specific locations within the launch areas. The launch sites are lettered "A" through "E", in order, in accordance with their locations along the access road as approached from the direction of the entrance to the launch area. The launch positions within each launch site are numbered "1" through "6" in a clockwise direction beginning with the first position to the left as the launch site is viewed from the access road.

All measurements contained in this report are the best obtainable within the current limits of the KH-7 system and exploitation techniques. There being no means in the system for determining camera attitude, precise attitude is unknown and planned attitude is assumed. A full analysis of the metric characteristics of strip camera photography has not been completed. Wherever possible measurements have been cross-checked with collateral information.

Significant new information revealed at the Southwest Complex by the [REDACTED] photography includes the identification of a field-type SA-3 surface-to-air missile (SAM) site within the complex proper and the removal of at least three buildings in a previously reported 1/ probable construction support area located along the approach road approximately 4,550 feet east of the complex.

At least four unidentified vehicles were observed in the support area and three in the barracks area on the [REDACTED] photography. These were not present in [REDACTED]

No other significant changes or additions were observed in the outward appearance of facilities at the complex since it was covered by good-quality smaller scale [REDACTED] photography of [REDACTED] and photography of [REDACTED] when interpretation was limited by snow cover and haze.

No missiles or missile support equipment (other than at the SA-3 site) or actual construction activity in progress were identifiable at the complex on the [REDACTED] photography.

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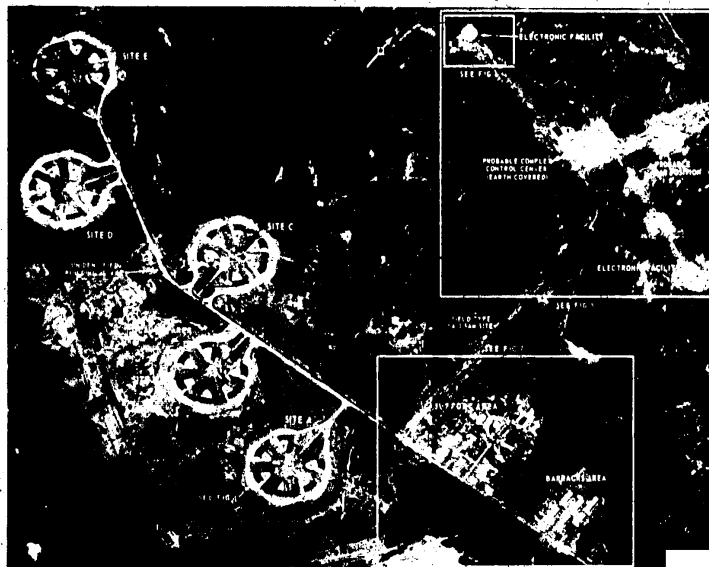


FIGURE 2. Leningrad SOUTHWEST PROBABLY AREA A - NON COMPLEX

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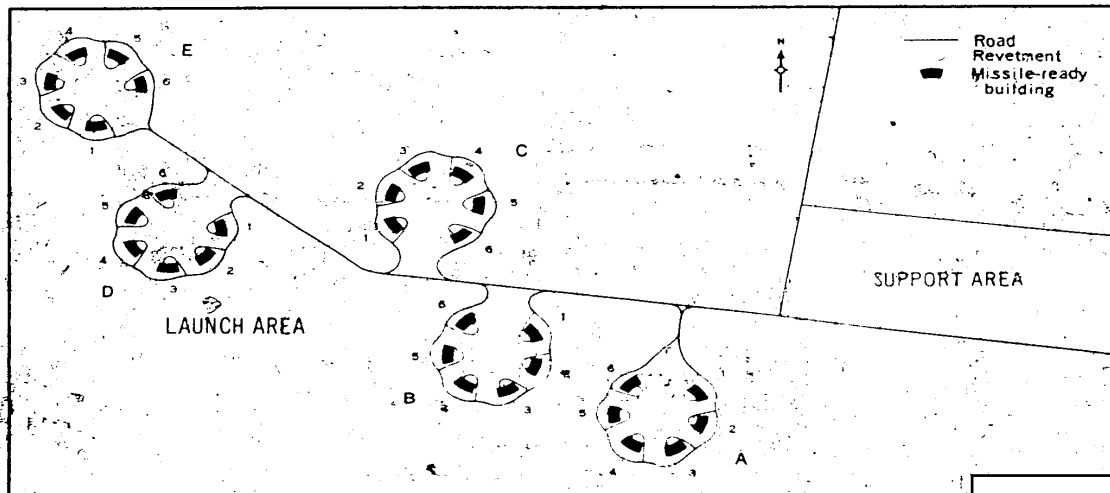


FIGURE 3. EXAMPLE OF LAUNCH AREA DESIGNATIONS.

The six launch positions at each of the five launch sites appear generally alike, although it is not possible to determine their comparative status. Each of the triangular launch positions is revetted, with a circular area light in tone measuring approximately 25 feet in diameter located at the apex (Figure 4). The centers of these circular areas are dark in tone and are considered to be probable launch points. Some are concave in appearance while others appear to have some height. The missile-ready buildings associated with each launch position are similar in outward appearance. Five openings are visible along the outer and inner sides of many of the buildings on oblique photography indicating that each building contains five bays. Shed-like appendages extend from each end of the buildings on the side away from the site perimeter road. Radials extend part way across the perimeter roads to all building entrances and in some instances are discernible extending

from the inner side of the building toward the probable launch point, indicating the probability of rails servicing the launch positions. Unidentified objects appear on the white-toned areas on the perimeter roads between several of the building entrances.

A cylindrical structure is centrally located at each launch site, those at Sites B, D, and E appearing open at the top and those at Sites A and C covered. They also appear to vary in height.

Cables are apparent leading from the cylindrical structures to the vicinity of the launch points at Sites A and C. There are indications that cables may be earth covered at the other sites. A connection between the cylinder and the site control building is visible at Site A.

The launch site control buildings are earth mounded at each site. Two possible vents are visible on top of each mound.

A rectangular object measuring approximately is located on launch

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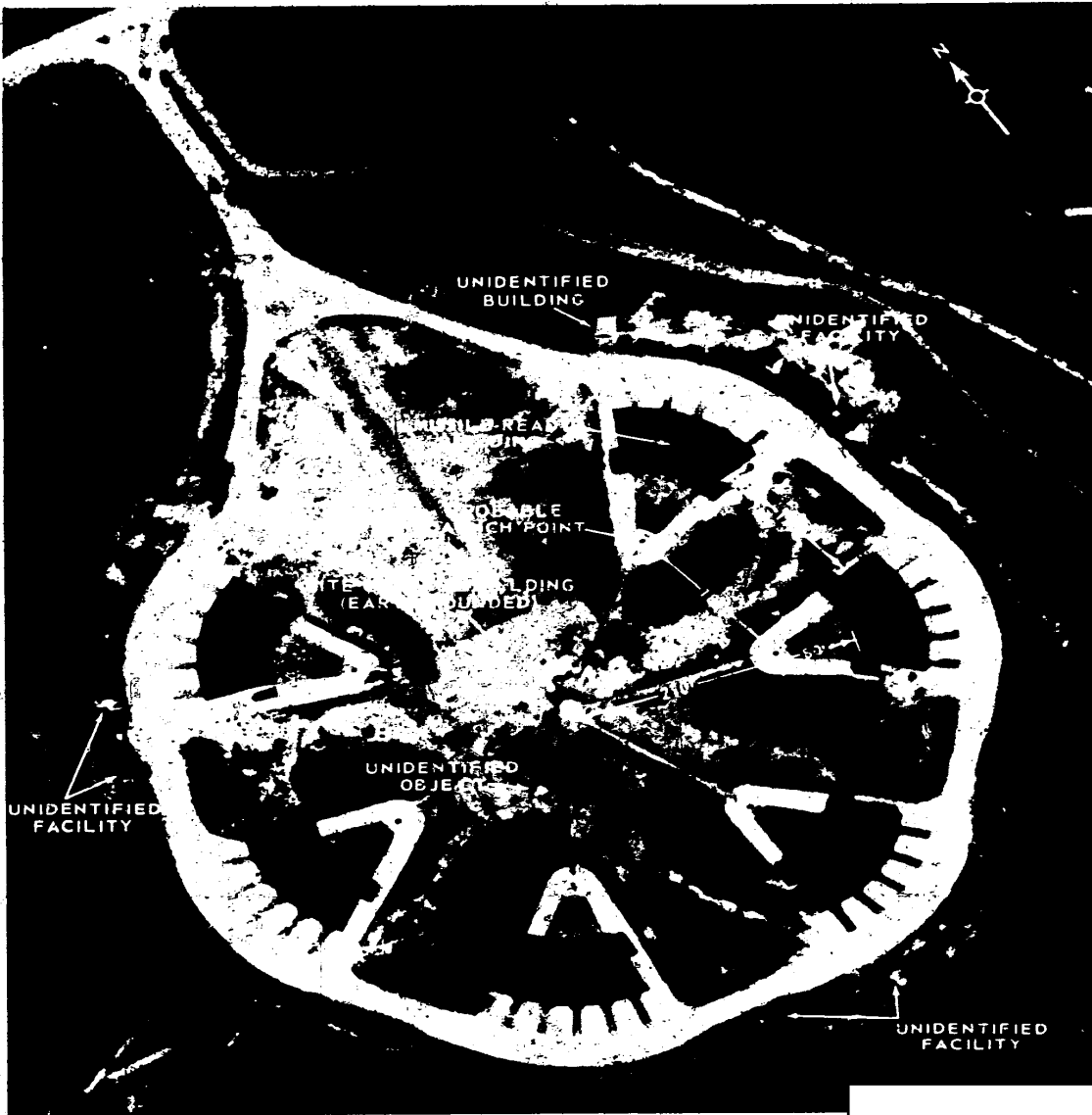


FIGURE 4. LAUNCH SITE A. More nearly vertical photography than that of Figure 2.

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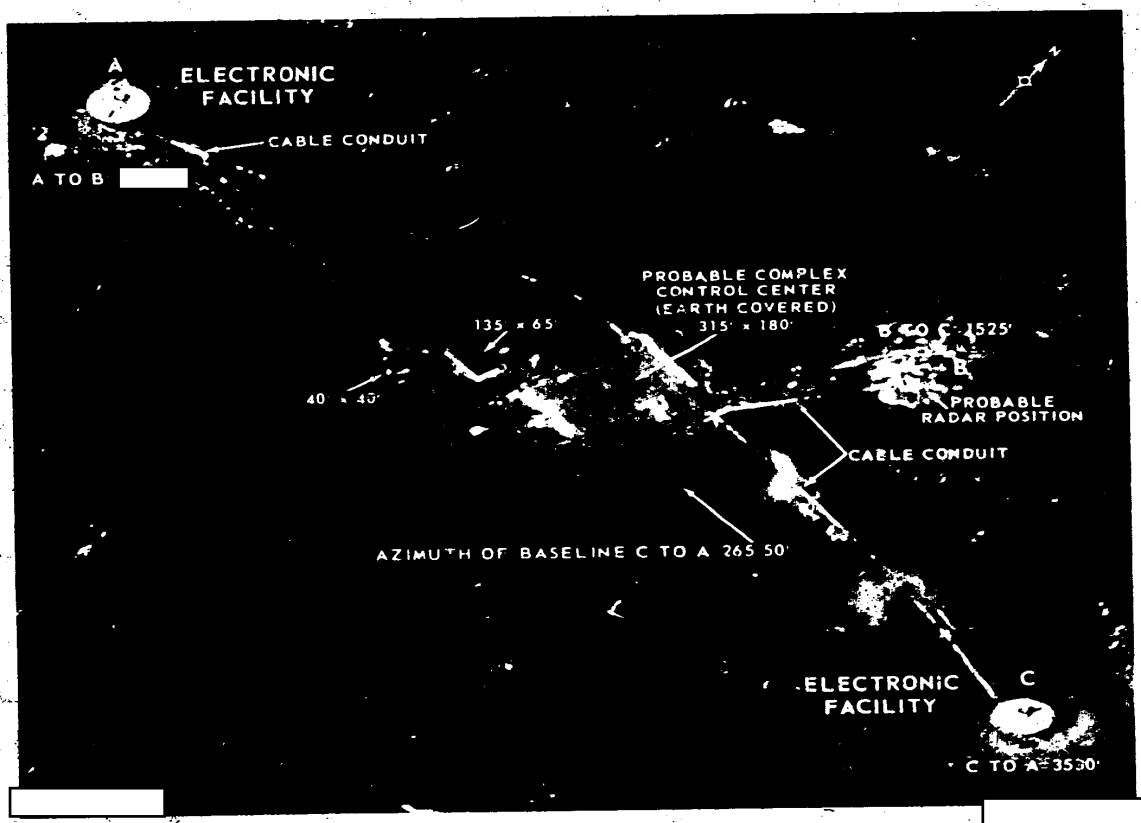


FIGURE 5. ELECTRONIC AREA.

position C4 between the missile-ready building and the probable launch point.

A rectangular building, function undetermined, and three areas containing additional unidentified facilities are positioned at regular intervals just outside the perimeter roads of each launch site. A 45-by 40-foot building with an associated small structure is centrally located within the launch area just south of the access road.

Facilities in the electronic area (Figures 5 and 6) are observed in greater detail than on previous photography. No radar antennas have been identified on the current photography.

The electronic facilities northwest and southeast of the Probable Complex Control Center each consist of an elevated circular platform 150 feet in diameter with a centrally located upright tubular structure approximately

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[] projecting at least 35 feet above the platform level. These platforms are supported by a girder-type framework. The two facilities are in varying stages of construction. Details of the platform surface cannot be determined from current photography of the Southwest Complex. Dark rectangular patterns on the platforms may be access ways from below. Additional dark images on the platform surfaces remain unidentified.

Construction progress of these facilities since [] cannot be evaluated on the basis of comparing current [] photography with 1963 smaller scale photography. Earlier construction chronology was covered in previous NPIC reports. 1/ 2/

Cable conduits lead from the earth-covered Probable Complex Control Center to the two elevated platforms and also to a probable radar position approximately 450 feet northeast

of the Control Center. The probable radar position consists of a hollow cylinder measuring approximately [] in diameter enclosed on three sides by a wall. A tower-mounted unidentified antenna was previously reported 2/ at this location. A re-analysis of earlier photographic coverage of this position in comparison with the current larger scale, better resolution photography does not rule out the possibility that an antenna was at this location when previously reported. Conversely, the feature previously identified as an antenna may have been a crane or the present facility in an earlier construction stage.

A line drawing of the support and barracks areas (Figure 7) is included to show structure dimensions.

The field-type SA-3 SAM site is deployed in a clearing just west of the complex support area. Two missiles (approximately 20 feet in

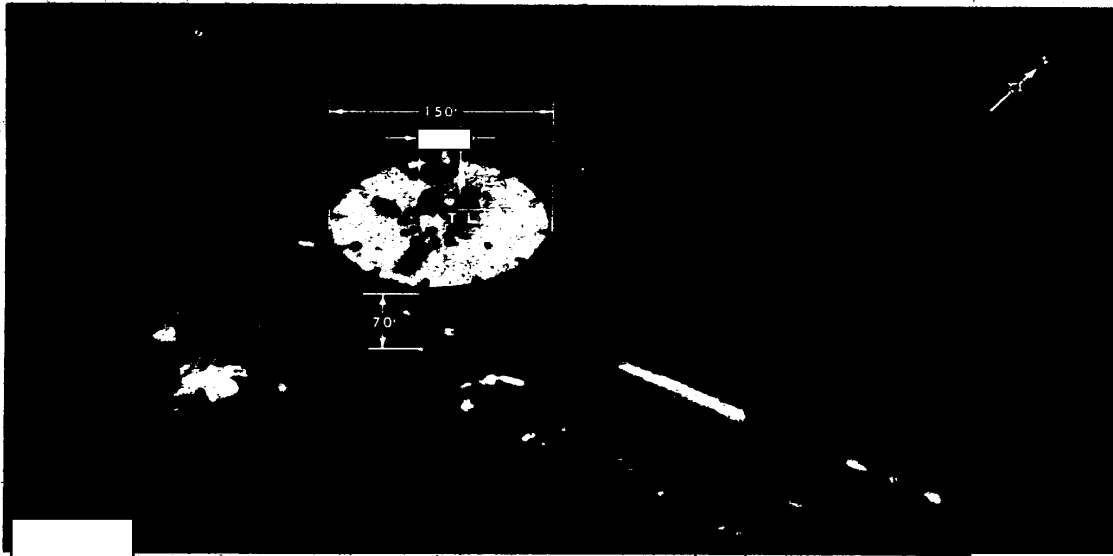


FIGURE 6. ELECTRONIC FACILITY.

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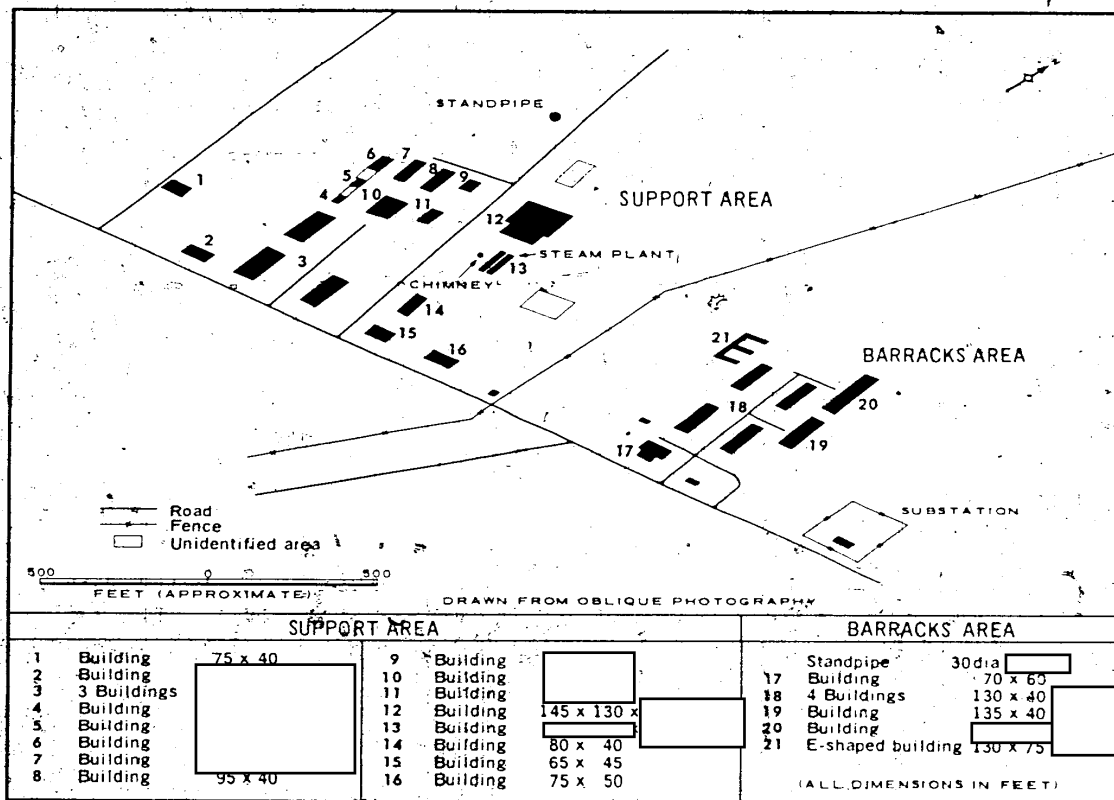


FIGURE 7. SUPPORT AND BARRACKS AREAS.

length) with an associated probable control van are visible in each of two apparently unrevetted positions. At least 14 additional vehicles/pieces of equipment and other unidentified related activity are located within the clearing. A recheck of earlier small-scale photography reveals that the site may have been occupied [redacted]. Minor earth scarification occurred at this location between [redacted] and [redacted] however, vehicles or equip-

ment were not discernible and probably not present. The launch revetments at the SA-3 SAM site located just outside the complex to the southwest were unoccupied when observed in [redacted].

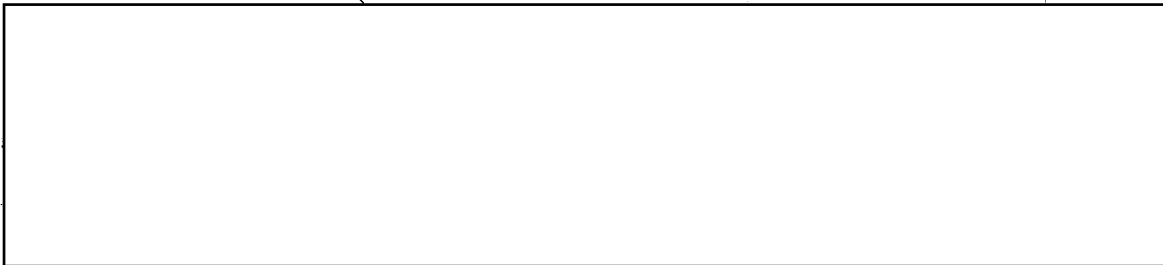
The buildings that were dismantled in the probable construction support area outside the complex were present in [redacted] and probably had been dismantled prior to [redacted].

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REFERENCES



MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0153-4HL, 3d ed, May 63, scale 1:200,000 (SECRET)

DOCUMENTS

1. NPIC. R-135/62, *Antimissile Missile Activity in the USSR*, Oct 62 (TOP SECRET [REDACTED])
2. NPIC. R-135/64, *Probable Antimissile-Missile Launch Complexes, Leningrad, USSR, Changes and Additions, June 1962-September 1963*, Mar 64 (TOP SECRET [REDACTED])

REQUIREMENTS

CIA. OSI, ORR/C-D14-61,376

CIA. ORR/C-RR4-61,456

NSA. P0432/R54/64

NPIC PROJECT

N-546/64 (partial answer)

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